

Modulation section 201 performs modulation processing on transmission data. Mapping control

5 section 202 controls mapping of the baseband signal onto  
the subcarriers so that the important information  
conventionally transmitted by one subcarrier is  
transmitted by two subcarriers and one of the two  
subcarriers should be the subcarrier with a carrier  
10 frequency signal of frequency 0 which was conventionally  
not used. IFFT section 203 performs IFFT processing on  
the modulated transmission data. Transmission section  
204 performs transmission processing on the IFFT-  
processed transmission data and transmits the processed  
15 transmission data from antenna 205.